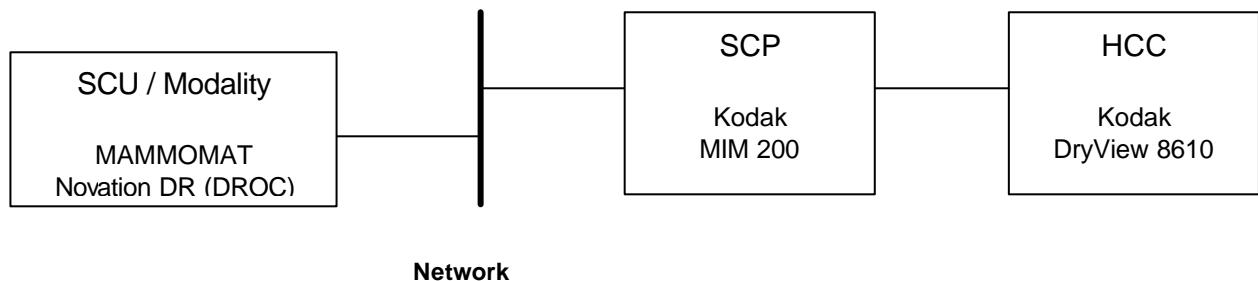| Product:	**MAMMOMAT Novation DR (DROC)**
Title:	Specific Hardcopy Camera Information for Kodak DryView 8610 / MIM 200
Affected systems:	MAMMOMAT Novation DR with Image Processing, V1.0 and Hardcopy Cameras
Replaces:	n.a.

1 General Information

1.1 Block Diagram

Network

1.2 Available Film Size

Application			Film Type	Medium Type
14"x17"	**Portrait**	n.a.	n.a.	n.a.
	Landscape	n.a.		
14"x14"	**Portrait**	n.a.	n.a.	n.a.
	Landscape	n.a.		
11"x14"	**Portrait**	n.a.	n.a.	n.a.
	Landscape	n.a.		
10"x12"	**Portrait**	n.a.	n.a.	n.a.
	Landscape	n.a.		
8"x10"	**Portrait**	**yes**	**DVM**	**Blue-based**
	Landscape	**yes**		
others		n.a.	n.a.	n.a.

yes   - Film size is available and released
no   - Film size is available but not released
n.a.   - Film size is not available

1.2.1 Supported Format

Supported page format is always 1x1

1.3   Restrictions

For HCC-independent restrictions, see also the general restrictions in the MAMMOMAT Novation DR document.
The linear LUT of max. density 3.5 is out of tolerance (in the basic qualification), but for mammography images the expected reference LUT is reached.

2   Modality SW Configurations / Parameters

Refer to: MAMMOMAT Novation DR/CB-DOC/ Installation/Installations instructions.

file name	content	remarks
dryview8610. cfg	**Configuration DROC** Software Configuration Edit ./installed/raw/vdevdryview8610_001 Edit ./installed/raw/vdevdryview8610_001's configuration file: /linx_mp/resources/installed/raw/vdevdryview8610_001/dryview8610.cfg -- **Group: Server** factory object name = RMS://siemens07/installed/services/jss_server:PJF_OREF spooler name = DicomPrintSpooler priority = normal max retries = 20 -- **Group: Output Device** device type = DRYVIEW -- **Group: Print Job Description** device name = DV8610 device address = 146.254.124.43:5040 request annotation SOP class = false request print job SOP class = false print job poll period = 15 print job timeout = 300 printer poll period = 15 association timeout = 0 collate = false custom lut file = photometric interpretation = automatic -- **Group: Film Session** copies = 1 medium type = BLUE FILM film destination = PROCESSOR film session label = DROC film memory allocation = 0 print priority = MED -- **Group: Film Box**	This parameter can be changed within Netscape Service Login. Only imported parts of the file are shown.

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```
available image display formats = PORTRAIT\1,1
image display format = PORTRAIT\1,1
annotation display format id = 6
number of annotation boxes = 6
annotation boxes per text line = 3
max annotation box text string size = 64
annotation string =
max text line size = 189
number of image text lines = 5
image text position = left
image text overlap = overwrite
image text reorient = reorient_0
```
film size id = 8INx10IN
film magnification type = REPLICATE
```
film smoothing type = NONE
border density = BLACK
empty image density = BLACK
full pixel range = true
min density = 20
```
max density = 350
configuration info = LUT=0,5
```
trim = NO
-------------------------------------------------------------------------------
```
Group: Image Box
```
polarity = NORMAL
available image magnification types = REPLICATE BILINEAR
CUBIC
```
image magnification type = REPLICATE
```
image smoothing type = NONE
```
true size capable = true
enable selective true size = true
```
pixel size = 70
pad = false
image text line 1 = <Off>
image text line 2 = <Off>
image text line 3 = <Off>
image text line 4 = <Off>
image text line 5 = <Off>
-------------------------------------------------------------------------------
```
Group: PORTRAIT\1,1
```
width = 2781
height = 3430
```

Note:	After changing Film Size ID in Netscape, you have to press the Update button and restart the Sun!!!

3   Hardcopy Camera, Configuration

3.1   Identification

Device Type:	DICOM Print Server(SCP)	Printer
Manufacturer / Device Name:	Kodak / PACS Link MIM 200	Kodak / DryView 8610
HW Revision:	IBM – PC, xSeries 200	n.a.
SW Revision:	V 6.1	V 2.4
Image Memory:	256 MByte	256 MByte
Hard disk:	4 GByte	n.a.
Number of Operating Panels:	1	1 Built In
No./Type of Input:	1 Ethernet / RJ45	1 Control / 1 Data
No./Type of Output:	1 Copcil Board	n.a.
Physical Network Interface:	10/100 Base T/Tx	n.a.
Network Protocol:	TCP/IP	n.a.
DICOM Conformance Statement:	Kodak PACS Link MIM 200 / Software Version 6.1 / October 17, 2003 / Rev. G	n.a.

3.2   SCP / Printer Settings

File name	Content	Remarks
Not available	**MIM200 Setup:** ■ on Configure, Network: ■ Node Name=MIM, IPAddr=accordingly ■ Subnet Mask=accordingly, Gateway Addr=accordingly ■ on Configure, Input, Network, Add: ■ Protocol=DICOM 3.0, Log.Name=DICOM, Type/Com=Keypad/COM9 ■ on Configure, Destination, Add, Print, Direct, Qualified, 8610, Set: ■ General: Log.Name=8610 ■ General: Database Name=8610, Model=8610, Memory=32 ■ Media Info: Media=8x10in, 5025x6200, 6020, Blue ■ Output Params: Cmd Set=952, Baud=1200, Data=8, Stop=1, Parity=Even ■ Output Params: Pixel=12, Header/Line, Transfer=2000 KHz, Acq=60 ■ Supported Item: Collation=On, Text=On, Tonescaling=On, Rotation=On ■ Interpolation: NoMag=On, Bilin=On, Repl=On,Cubic Spline=On ■ Format Types: Custom=On, Slide=On, Row Symmetric=On ■ Format Types: 1, 2, 4, 6, 8, 9, 12, 15, 16, 20, 24, 30, 35=On ■ Formatting: Aspect Ratio Mix on Page=On, Image Size Mix in Std Fmt=On ■ Formatting: DICOM Annotation Box=On, Req.Size Scale=On ■ Formatting: Req.Size Mix in Row=On, Trim=On ■ Formatting: Aspect Ratio Mix in Row=On, Image Size Mix in Row=On ■ Formatting: Req.Image Size=On, Req.Size Mix on Page=On ■ Formatting: True Landscape=On	Provided by Kodak

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- Formatting: Max Img per Band=20, Max Band per Page=20, Max Img Col=0
- Formatting: Max Img Row=0, Min Horiz Sep=2, Min Vert Sep=2
- Formatting: Trim Width Enabled=2, Trim Width Disabled=0
- Formatting: Pixel Pitch=25.8065
- Image Processing: Grayscale=On, Minify=On, Max Image Dmax=3.5
- M952 Usage: Min H/V Mag=0.26, Max H/V Mag=16, Min Dmax 952=2
- on Configure, SCP Services, select the specific modality, Modify:
- PLUT=N, ToneScaling=PerceptionLUT (Always=Y)
- **Contrast (dry)=5 (Always=N)**
- **Modality Group=1 (which corresponds to TFT/ULUT=upmsv3kp.w8u)**
- Conv.Group=1, Gamma Table=Linear in Density
- Image Dmin=0.00 (Always=N), Image Dmax=3.50 (Always=N)
- Smoothing Type=1 (Always=N), Image Polarity=Normal (Always=N)
- NeventReports=Off (Always=Y), Warning Status=On
- Print Date=Off, Print Time=Off, Page Number=Off, Hosp.Name=Off
- Modality ID=Off, Annotation Override=Off (Always=N)
- Minify/Scale=On, Crop=Off, Source ID=droc
- Print Priority=Normal (Always=N), Border=3.99 (Always=N)
- Film Base=Blue Film (Always=N), Film Size=8INx10IN (Always=N)
- Negotiate Color Print=Off

8610 Setup: on 8610 Operator Menu into Test Menu, Software Version, verify:
- Imager=2.4, Contrast=6.P.2, Conv.Kernel=M.1.0
- (if 8600: Imager=2.5, Contrast=6.G.7, Conv.Kernel=1.0.5)

- on 8610 Operator Menu into Configure User set:
  - Density=16, Contrast=6, Sharp/Smooth=1, Film Layout: 1:1P
  - Gamma=Xmittance, Image Size=Scale To Fit, Detector Size=don't care
- on 8610 Service Menu into Configure User set:
  - Ratio=1.00, Serial Control Intf.=1200,8,1,Even,Comma,3M, Memory=127
  - Digital Interface: Parity=Even, Modality Group=1, Smoothing Group=1

3.3   Error and Warning Messages

n.a.

4   Image Quality and Optical Density

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4.1   Reference Film and LUT

Released Film Type	DVM	BLUE FILM

Refer to: MAMMOMAT Novation DR/CB-DOC/ Installation/Installations instructions.

4.2   Real Size Scaling

n.a.

5   Abbreviations

AE Title	Application Entity Title
DCS	DICOM Conformance Statement
DICOM	Digital Imaging and Communication in Medicine
HW / SW	Hardware / Software
HCC	Hardcopy Camera
LUT	Look Up Table
OEM	Original Equipment Manufacturer
SCP	Service Class Provider
SCU	Service Class User
TCP/IP	Transfer Control Protocol / Internet Protocol
PLA	Pacsnet Logical Address

6   Changes to Previous Version

n.a.

Document revision level

The document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

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